

HII FIKER MSE SQUARE PANEL WALL SYSTEM



GENERAL NOTES

DESIGN CRITERIA

THE ATTACHED DETAILS ARE BASED ON THE ASSUMPTIONS THAT THE MATERIAL WITHIN THE REINFORCED VOLUME, METHODS OF CONSTRUCTION AND QUALITY OF PREFABRICATED COMPONENTS MEET THE GOVERNING AGENCIES SPECIFICATION FOR MECHANICALLY STARILIZED FARTH STRUCTURES

2. MINIMUM DESIGN PARAMETERS

SEE WALL CONTROL DRAWINGS FOR SOIL CHARACTERISTICS OF FOUNDATION MATERIAL TO BE USED IN THE DESIGN OF THE WALL SYSTEM. THE CONTRACTOR SHALL PROVIDE SOIL DESIGN PARAMETERS FOR BACKFILL MATERIAL BASED ON THE ACTUAL SOIL CHARACTERISTICS UNITZED AT THE SITE. THE VALUE OF THE INTERNAL FRICTION ANGEL, PHI, THE CONESION, C, AND THE UNIT WEIGHT, GAMMA, SHALL BE PROVIDED IN THE SHOP DRAWINGS

EXTERNAL STARRITY

OVERTURNING SL IDING REARING PRESSURE 2 2.5 OVERALL STABILITY 2 45 INTERNAL STARILITY PULL OUT STEEL YIELD STRESS

0.47 F = 75 YEARS CERVICE LIEE LIVE LOAD SURCHARGE : 250 PSF

- THE MAXIMUM APPLIED REARING PRESSURE AT THE INTEREACE OF THE FOUNDATION AND SELECT BACKFILL MATERIAL IS SHOWN ON THE PLANS, THE BEARING PRESSURE SHOWN IS THE MAXIMUM FOR THE CIVEN BASE MAT LENGTH, IT IS THE RESPONSIBILITY OTHERS TO DETERMINE THAT THE BEARING PRESSURE IS ALLOWABLE FOR THAT LOCATION.
- ANY UNSUITABLE FOUNDATION MATERIAL BELOW THE REINFORCED VOLUME AS DETERMINED BY THE ENGINEER SHALL BE EXCAVATED AND REPLACED WITH SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER.
- THE DESIGN CONTAINED ON THESE DRAWINGS IS BASED ON INFORMATION PROVIDED BY OTHERS, ON THE BASIS OF THIS INFORMATION, TAB STRUCTURAL SYSTEMS IS RESPONSIBLE FOR THE INTERNAL STABILITY OF THE STRUCTURE, EXTERNAL STABILITY OF THE STRUCTURE, EXTERNAL STABILITY OF THE STRUCTURE, EXTERNAL STABILITY OF THE FOUNDATION AND SLOPE STABILITY IS THE RESPONSIBILITY OF OTHERS.

WALL CONSTRUCTION

- WALLS FOUNDED ON CURVES SHALL HAVE THEIR PANELS DIMENSIONED AS A SERIES OF CORDS (AS DIMENSIONED IN SHOP DRAWINGS) IN ORDER TO MATCH THE REQUIRED WALL RADIUS.
- FOR LOCATION AND ALIGNMENT OF THE MSE STRUCTURES REFERENCE THE RETAINING WALL CONTROL PLANS.
- IF MANHOLE AND DROP INLETS ARE REQUIRED, THEY SHALL BE LOCATED AS SHOWN ON THE RETAINING WALL ELEVATION DRAWINGS.
- IF PILES ARE LOCATED WITHIN THE REINFORCED VOLUME THEY SHALL BE DRIVEN PRIOR TO CONSTRUCTION OF THE WALL UNLESS AN ALTERNATE METHOD IS USED TO ISOLATE THE COLUMNS FROM THE REINFORCED VOLUME AS APPROVED BY THE ENGINEER.
- BACKELLI MATERIAL SHALL BE COMPACTED IN ACCORDANCE WE WITH SECTION 548 TO A LEVEL 2 (PLUS OR MINUS) ABOVE THE ELEVATION OF THE SOIL REINFORCING ELEMENT. NO SOR REINFORCEMENT SHALL BE ATTACHED TO ANY PANEL BEFORE THE BACKFIL IS
 PLACED AT THE REQUIRED ELEVATION AND IS COMPACTED.
- STRUCTURES GREATER THAN 20 FEET SHALL HAVE THE FINISHED GRADE PLACED AND COMPACTED AT THE FRONT FACE OF THE STRUCTURE BEFORE THE STRUCTURE HEIGHT EXCEEDS 20 FEET, FINISH GRADE SHALL BE COMPACTED TO 95 % OF AASHTO T-180 UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY GUARDRAIL POSTS PRIOR TO PLACING THE TOP ROW OF SOIL REINFORCEMENT, THE POST SPACING SHALL BE ADJUSTED TO AVOID CONFLICTS WITH THE LONGITUDINAL SOIL REINFORCING WIRE. CUTTING OF THE LONGITUDINAL WIRE SHALL BE ALLOWED ONLY AS DIRECTED BY THE ENGINEER.

- IF EXISTING OR FUTURE STRUCTURES ARE TO BE PLACED IN THE REINFORCED VOLUME THAT SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR A COURSE OF ACTION.
- TOP COPING PANELS BENEATH CAST-IN-PLACE COPING SHALL HAVE 1/2" DOWELS PROTRUDING FROM THEIR TOP FOGE.
- FOR OTHER INFORMATION PERTAINING TO THE CONSTRUCTION OF THE HILFIKER RETAINING WALL PLEASE REFER TO TAB STRUCTURAL SYSTEMS ERECTION MANUAL
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEFLECT THE TOP ROW OF SOIL
 REINFORGEMENT DOWNWARD SO AS TO NOT CONFLICT WITH ROADWAY MIXING OPERATIONS AND/OR ROADWAY CONSTRUCTION OPERATIONS, ANY SOIL REINFORCING MATERIAL THAT IS

DAMAGED SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

MISCELL ANEOUS NOTES

NOMINAL SOIL REINFORCING GRID LENGTH

THE WELDED WIRE MESH IS MANUFACTURED IN LENGTHS CORRESPONDING TO THE DIMENSION "B" AS GIVEN IN THE RETAINING WALL ELEVATIONS, THE ACTUAL LENGTH FROM THE FRONT FACE OF THE PAUSE. TO THE FALL OF THE SON, REPROPERIED FOR IS PLUS 2" THIS ACCOUNTS FOR THE THICKNESS OF THE PAUSE, AND THE LOCATION OF THE CONNECTION OF THE SON, REPROREMEND AND "INTHE PAUSE, ANOHOR, THE FOUNDATION SHALL BE EXCAVATED TO AN EXTENT OF 'B' PLUS 12'.

SELECT RACKELL OUANTITY

THE REQUIRED VOLUME OF IN-PLACE SELECT BACKFILL IS CALCULATED BY MULTIPLYING THE RETAINING WALL FACE AREA BY THE SOIL REINFORCING LENGTH. THIS IS PERFORMED AT EACH MOVIDULAL SCIENT OF WALL FOR EACH CORRESPONDING "BY THE BACKFILL QUANTITY IF GIVEN BY T&B STRUCTURAL SYSTEMS IS AN ESTIMATE ONLY, THE CONTRACTOR IS ULTIMATELY TO DETERMINE THE QUANTITY OF SELECT BACKER! MATERIAL THAT IS REQUIRED.

THE CONCRETE PANELS SHALL HAVE A PLAIN STEEL FORM FINISH UNLESS OTHERWISE SPECIFIED ON THE RETAINING WALL CONTROL PLANS.

THE FOLLOWING MATERIALS ARE SUPPLIED BY TAB STRUCTURAL SYSTEMS

· PRECAST CONCRETE FACING PANEL

· SOIL REINFORCING GRIDS

· CONNECTION PINS

. I/2" DIAMETER ALIGNMENT PINS

. 60 DURO 3/4" X 8" BEARING PADS SYNTHETIC INDUSTRIES GEOTEX 401 NONWOVEN GEOTEXTILE FILTER FABRIC

ANY OTHER MATERIAL REQUIRED TO BUILD THE MSE STRUCTURES ACCORDING TO THE

GOVERNING SPECIFICATION SHALL BE SUPPLIED BY THE CONTRACTOR.

TAB STRUCTURAL SYSTEM SUPPLES MCCHANICALLY STABBLIZED EARTH STRUCTURAL COMPONENTS FOR USE WITH THE HEIKER RETAINING BALL SYSTEMS FOR THE STRUCTURES DETAILED HERRIN THE ERECTION MANUAL PROVIDED BY TAB STRUCTURAL SYSTEMS IS A GENERAL CHOICEME FOR BECETING THE MERGER RETAINING MALL SYSTEM. ALL QUALITY CONTROL PROCEDURES, STAGING PROCEDURES, MATERIAL HANDLING, AND SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR, THIS DOES NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO CONSTRUCT THE RETAINING WALL ACCORDING TO THE PROJECT PLANS AND SPECIFICATIONS AND ALL LAWS OF THE GOVERNING STATE.

FNG/ ISH

THIS SYSTEM FOR USE IN MODERATELY OR SLIGHT AGGRESSIVE ENVIRONMENTS ONLY

RETAINING WALL SYSTEM HILFIKER SQUARE PANEL

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T&B STRUCTURAL SYSTEMS MC.
ENGWEERED STRUCTURES
637 WEST HURST BLVD.
HURST, TEXAS 76053 CTS ARE COVERED BY UNTILED STATES AND FOREIGN PATENTS AND

. MATERIAL CONTAINED NERE BITHIN 15 PROPRETARY PROPRETY OF
SYSTEMS AND MAX MOT BE REPRODUCED ON TRANSMITTED.

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HELL HILFIKER RETAINING WA











